
8. Meddlesome Chimpanzees

Program Name: Meddle.java

Input File: meddle.dat

Caesar, the Great Chimpanzee, has taken control of a computer and several keyboards connected to it. He has a crew of chimpanzees capable of typing up words in English on this computer. After they finish typing, Caesar wants to verify that the words were actually saved in the computer. The problem here is that a rival group of chimpanzees have secretly connected another set of keyboards to the same computer and have begun typing random letters while Caesar's crew was typing. To irritate Caesar, they have interleaved extraneous letters in Caesar's input and may have over-written a character here and there.

A word is possible if Caesar can trace the word by only reading left to right. For each word, determine whether or not the words in Caesar's modified list are possible.

Input

The first integer N denotes the number of test cases to follow. Each test case starts with a string of characters that represent the final string that was stored from the input of all the chimpanzees. The next line has an integer K. The next K lines contain K words (one word per line) that Caesar is checking. Determine if Caesar can make out the word.

Output

For every word in the input, print out that word followed by a colon and a space and a YES if the word is possible and NO if it is not. There is a blank line between each test case.

Assumptions

The words will be in lower case letters from a to z.

Example Input File

```
2
sogwimovred
4
give
words
some
me
msgqouotgalrea
4
google
quora
moxtra
square
```

Example Output to Screen

```
give: YES
words: NO
some: YES
me: YES

google: YES
quora: YES
moxtra: NO
square: YES
```